PIKES PEAK RADIO AMATEUR ASSOC.

Ø BEAT

COLO. SPRINGS, COLORADO

JULY 1970

Rosie Wins Colorado PICON Award

* * *

WAØLVL TO SPEAK ON NEW CONCEPTS FOR AMATEUR RADIO COMMUNICATIONS

"New Communications Concepts For Amateur Radio" will be the talk, supplemented by film, by John Kester, WAØLVL, as the entertainment portion of the July meeting of the PPRAA.

Starting at 7:30 July 8, the meeting will be held, as usual, in the U. S. Naval Reserve Training Center, Lake and Logan Streets.

John will discuss some of the data processing and computer concepts already in use in amateur radio and others which can well find their place in amateur radio in the future.

Two proposed amendments signed by the PPRAA Board of Directors will also be presented at the meeting for the approval of the members as part of the meeting. These appear elsewhere in this issue.

Other matters discussed at the meeting of the Board of Directors in June will also be discussed for the information of the members at the meeting, including the an-

(Continued on Page 2)

WAØMNL Wins Coveted ARRL Honor On Recommendation by Daughter

"Our Own Rosie"---Rosemarie Lewis, WAØMNL, came back from the Rocky Mountain Division ARRL Convention in Estes Park in June with the coveted PICON Award for the state of Colorado---given to the amateur by ARRL for outstanding public service through amateur radio and other activities.

The award was the result of the recommendation by one of Rosie's most ardent admirers---her daughter Linda, WAØMNM ---who felt that Rosie's work in amateur radio and other activities warranted the award.

It was a surprised Rosie who got the award. On the way to the convention she had not the slightest inkling that she would be returning to Colorado Springs with the number one ARRL service honor for Colorado.

The letter by which Linda recommended her mother for the award follows:

To Whom It May Concern:

I, WAØMNM, Linda Lewis, wish to nominate my mother, WAØMNL, Rosemarie

(Continued on Page 4)

ZERO BEAT
Published monthly in the interest of the members of the Pikes Peak Radio Amateur Assn., Inc., Colorado Springs, Colo.

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-o-
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-o-

The PPRAA meets the second Wednesday of each month in the U. S. Naval Reserve Training Center, Lake and Logan Streets, starting at 7:30 p.m. All radio amateurs and other interested persons are invited to attend.

Copy Deadline for the AUGUST ZERO BEAT is 28 July.

Editorial

A WELL DESERVED AWARD

Wa are sure that all the members of the PPRAA will join is in congratulating "Rosie" Lewis, WAØMNL, on her receiving the PICON Award for the state of Colorado.

A wiser choice could not have been made. Rosie's determination, long hours of operation as an amateur radio operator, enthusiasm and personality make her the kind of a person any amateur radio organization would be glad to have as a member.

Whatever comes up to be done---handling traffic, emergency operation, as an active member and former member of the Board of Directors of the PPRAA, making plans for communications for the Powder Puff Derby, rounding up prizes for picnics and other club affairs---Rosie is always there to handle the job.

We believe the situation can well be summed up by saying "Congratulations, Rosie---we're sure glad you're one of us---in the PPRAA!!"

And for Linda, WAØMNM, we add on congratulations for the "accomplishment of your 'mission'"---and especially for your fine action in recognizing the work and abilities of your "Mon."

Who says there's a "generation gap"?

-o-

Seem to be in the habit of making excuses and apologies about Zero Beat these days. Anyhow---

If you thought Zero Beat was stapled wrongly last month----it was. When the issue was assembled the "okasan" (Japanese for XYL, for you who've never had the opportunity to visit colorful Nippon) helped by doing the stapling. Although we've bee away from Japan for 12 years she evidently had been reading one of the Japanese magazines sh gets each month and stapled Zero Beat so it read "Japanese style" (from back to front). By the time I discovered the discrepancy, it was too late and too much work to remove all the staples and restaple the issue correctly. Will try to see that she does it "the American way" the next time she offers to help.

---Frank, WØHWH

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JULY PPRAA ,EETING

(Continued from Page 1)

nual picnic and swapfest August 23 and the proposed Colorado Council of Radio Clubs discussed at the Rocky Mountain Division ARRL convention in June.

George Kowalski, WØGCH, will also probably have some sort of a report on the June 27-28 Field Day activities by the club members.

And perhaps Rosie Lewis, WAØMNL, a report on Powder Puff Derby activities.

PPRAA MEMBERS HAVE BUSY SUNDAY WITH RACES, SEARCH

Sunday June 21, turned out to be a busy day for several members of the PPRAA.

Early ib the day, Bill King, WØLKD, Pete and Ida Demario, KØUDG and WAØ-NTA, George Kowalski, WØGCH, and Barry Mitchell, K3WKV/Ø, joined Vic Beaver, WØKVX, and other members of the Pueblo Club in providing communications for the Arkansas River Boat Race.

Shortly after the race was over and the Colorado Springs operators had started the return trip, there was a flash flood in the area which covered the road back to Pueblo, delaying the return of Vic and some of the other Pueblo amateurs.

During the return trip to the Springs Barry picked up the news on his monitor that there was a boy lost on the Rampart Range. George, Barry, Bob Bowers, WØ-MQE, headed for the mountain to assist, Bill providing the "base station" at his QTH. The lost boy was finally found about 1 a. m. the following morning.

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FOR SALE---R388 for $100, R390 for $150. Both in good condition. Call Leo--WØBXM, 596-1650 after 4:30 p. m.

-o-o-o-o-

Make plans for the picnic, Aug. 23.

WYOMING AMATEURS PLAN STATE HAMFEST JULY 18 AND 19

Word has been received of the Wyoming State Hamfest, to be held July 18 and 19 at Glendo State Park, Wyoming, on the "camp ground above the marina."

According to Glen, W7NQX, "There are no registration fees, no prizes (unless we can bum a few), no official program except an ARRL Forum Saturday evening, also the Wyoming Amateur Mobile Club elections and meeting.

"We hope to have a swap table, so bring your trading stock," adds Glen. (Better yet, keep it for our own swapfest and picnic next month--- August 23---editor)

Glen adds that there should be plenty of room for tents, campers, etc. "Bring your own chow and eating equipment and let's all have a big time," he adds. He also states that there will be a pot luck banquet Sunday evening (Bring whatever you have handy).

-o-o-o-

CODE CLASSES DISCONTINUED

The PPRAA code and theory classes held in the Civil Defense Center of the Colorado Springs Police Station have been discontinued, at least for the present, for the lack of an instructor. Future classes depend on an interest in their contuation and some one with the time to conduct them.

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ROSIE WINS PICON AWARD

(Continued from Page 1)

lewis for the PICON Award.

Since we received our tickets on May 30, 1965, she has been a shining example to Amateur Radio and is known the world over.

After being a novice for only a few months, she went to Denver and got her general on first try. Then, sometime later she ran up and got the advanced which she now holds.

Besides being able to pull rank on the other 4 hams in the family, she is a top CW op. She's been known to get so wound up on CW that she forgets half the dinner in the oven....but we don't mind, we just eat it for breakfast!

I began to realize Mom was a special kind of ham when we went on Girl Scout camp outs, she always took her rig along. And made arrangements so we kept communications with Colorado Springs. Dad being on the rig at this end. Once at winter camp we were taken up and just left! There were 15 girls, Mom, 2 four legged jackasses and good old two meter FM for transportation, entertainment, communications and just plain Survival. We were unable to reach the Springs because of our location but we were able to trip the Denver repeater. Mom in her charming way persuaded a Denver station to think it was his marvelous idea to leave his rig on all nite in case we needed assistance. We were thankful for 2 meter FM once again when one girl suffered a leg injury.

In public service MNL is very well known, we spent 24 hours for three days on the Cheyenne Mountain fire. And she's spent hours looking for more lost kids than her own.

She's been active in the foot race marathon up Pikes Peak, in communications, that is! One year she and my younger brother Jerry carried a 30 lb. battery up Barr Trail above Mt. Manitou to relay for the runners, If that isn't service, I don't know what is!

Mom is active in ARRL, has served as assistant area Director. She is active in the Pikes Peak Amateur Club, is a past secretary and member of the Board of Directors.

She was chairman of our first club picnic and spent many days out pounding the pavement affording people the opportunity to donate all those wonderful prizes. In fact, given time, she can talk one of the local radio stores out of prizes for any worthy event. She's even talked Walker Radio out of a transmitter for this coming PPRAA picnic, she just happened to be there talking to them about door prizes for the Colorado YL April meeting.

She writes for the club paper, Ø Beat, so can get in on all the news, printable or unprintable.

MNL is always available to lend a hand on any club activities such as SET or Field Day. You never know if she'll be pounding a key or just formaning the whole job.

Her activities are many and varied. Among those I might mention are that she worked at a Boy Scout camp for nine weeks. Taking her trusty rig with her. Being a female operating from a Boy Scout camp kinda knocked a few cat's hats in the creek. But she was a valuable ling with home for campers and Staff personnel when storms disrupted all phone service.

In '69 Mom was entrusted as secretary of the club to write a letter to all the legislators concerning the car license hike. And she did too! Over 100 of those darned things! Of course she had the first one duplicated but she licked over 100 stamps and addressed them to all them cornballs.

Mom is a trustee of the Colorado YL station, WAØESM. Active as she is, she can use two calls.

Mom now holds a ORS appointment and is active on the nets with CCN and TWN her favorites. She received the BPL award and other various "wall paper."

During the month of December she or-

(Continued on Page 5)

ROSIE WINS PICON AWARD

(Continued from Page 4)

iginated over 100 messages, many of these coming from the USOm where we have a display and forms for the service people to fill out.

During the '68-'69 school year a group of about 20 blind students at the Deaf and Blind School got acquainted with amateur radio, learning the code, and they "saw" a ham shack, talked on the air and several were licensed. Dad and I helped out but Mom never missed an evening class.

The most outstanding contribution to radio in 1969, in addition to the many messages handled, was the phone patches Mom handled for the Wayne Guber family of Colorado Springs. During an extended illness, Mr. Guber had to be hospitalized in Denver. Since his wife was working and their sons were in school, they were unable to visit except by phone. The telephone bill amounted to so much it became evident that Mr. Guber's stay in the hospital would be a long one. Mrs. Guber contacted Mom and thus the nightly patches began. Several of the Denver stations kept skeds with Mom. Mom handled it from this end, even thru a bout with the flu. Those patches were heart-warming and Mrs. Guber and boys talked with Wayne every day. Mom also kept relatives throughout the country notified of the results of Wayne's surgery. Mom notified the PPRAA Club when it seemed Wayne's recovery would inprove with seeing his family. A cash donation was received by a greatful Guber family. Wayne was home for Christmas but had to return the following day and phone patches were resumed. Wayne returned to Colorado Springs in January and MNL extended her tnx to all who had made the patches such a success. It added so much to the Guber's holiday season and Lewis's, too. With the holiday messages, phone patches, nets, and her job at the high school cafeteria and keeping up with the Lewis Household, I feel that Mom did an outstanding deed and is a credit to the Lewis family as well as radio by being a model ham.

As far as '70 goes, she is off to a good start as chairman of communications for the Powder Puff Derby the 4, 5 and 6 of July. And, naturally, there is still the CCN net every night at suppertime.

I consider her well qualified and, along with WaØERA, Eldon, WA6BGG, Larry and WA6KQX, Bonnie Lewis, would like to have her considered for this distinctive award.

WAØMNM, Linda Lewis

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UNDERSTANDING TRANSISTORS

By Jim White, Assoc. Mem. M.E.M.E.
(From the Tulare County (Calif.) Radio Club "Grid Leak"
via the Central California Radio Council "Circle")

LESSON 12

EXPLANATION OF TRANSISTOR TEST SET AS SHOWN IN LESSON 11

The power supply output voltage is monitered on a 0-40 volt scale on the meter by connecting resistor R12 in series with it. A value of 40,000 ohms is correct for almost any meter you might use, because the meter's resistance will be small in comparison. R7 is the meter substitution resistor Rm, R10 is the current-limiting resistor Ri and R11 is the meter shunt resistor Rs.

The resistors labeled Rb, RC and Re are connected externally to the terminal post as needed. Also note that because of the revesal of the power supply polarity when changing from an NPN to a PNP, both sides of the power supply must be above ground. Thus all capacitors and semiconductors must be insulated from the chassis.

The ideal size for this test set is approximately 12 inches long, six inches deep and five inches from front to back with a sloping front and facilities for venting at rear and bottom of the case. The 0-100 microameter requires two new scales added. The original meter scale can be erased and with india ink add one scale to read 0-40 for voltage and 0-100 for current. You have to divide by ten when you read collector current to 10 milliamps.

These are the three steps in using the test set:

Step 1: Check leakage.
Step 2: Set base-bias current.
Step 3: Read collector current.

To check leakage, first connect a jumper across the RC terminals and set the function switch to the LEAK position. Then turn the polarity switch to NPN or PNP as appropriate and depress S4, the PUSH-TO-READ switch. Read the collector-to-base current directly on the 0-100 ma scale. When performing this test be careful not to exceed the BVcbe rating of the transistor that is being tested.

To set base-bias current, complete the emitter circuit by connecting a jumper across the R3 terminals. Turn the function switch to the Ir position and depress S4. Adjust the bias pot until you read the desired current on the 0-100 ma scale of the meter.

To read collector current, make sure that both the Rc and Re terminals are jumpered and then turn the function switch to the Ic position. Read collector current, in ma by dividing the 0-100 scale reading by 10.

One of the most obvious uses is to determine the polarity of an unmarked transistor. To do this, plus the transistor into the test set and measure leakage. If the meter shows almost full scale deflection, the transistor is either shorted or is the opposite polarity from that assumed. To tell which, simply turn the polarity switch and watch the meter. If the meter still shows full scale, the transistor is shorted.

It should be necessary to depress the test button to get a reading when the current polarity it chosen. Another application would be if you wished to determine the base bias current for a certain collector current. You would set the test meter set to read collector current and adjust the bias pot until the meter reads the collector current required, then turn the function switch to the Ib position, depress the push switch and read the required bias current directly on the meter.

-o-o-o-o-

The FCC rule setting Channel 9 as a Highway Help Channel has gone thru and will be effective July 24. Channel 15 will be added to the "open channels." Channel 9 is 27.065 mHz, channel 15 is 27.135 mHz.

(From REACT News, via CCRC "Circle")

BOARD OF DIRECTORS PROPOSES AMENDMENTS TO PPRAA BY-LAWS

Two amendments to the By-Lass of the PPRAA were proposed by unanimous approval of the Board of Directors at a meeting June 17.

The proposed amendments, and the reasons for them are as follows:

1. To amend that part of Article II, Section w, which reads:

"Section 2. Meetings. Regular monthly meetings of the association shall be held on the second Wednesday of each month at 8:00 p.m., . ."

To read as follows:

"Section 2. Meetings. Regular monthly meetings of the association shall be held on the second Wednesday of each month at a time set by the Board of Directors . ."

Since the club has been meeting at 7:30 for some time, this is a technical ciolation of this part of the by-laws and necessitates a change. In making the change it was felt that by making the meeting time "flexible," it would permit changing the meeting times---later during the summer months when it stays lighter longer, and earlier during the winter months as the darkness sets in earlier.

2. To add the following Article as Article XII of the By-Laws:

"ARTICLE XII

"The annual accounting period for the Association shall start January 1 and end December 31 of each year."

The article was proposed to establish a reporting period for filing income tax returns and other financial accounting.

These two amendments to the PPRAA By-Laws will be voted on at the July 8 meeting by the voting members of the PPRAA in accordance with Article X of the By-Laws, which states:

"These By-Laws may be amended, altered or repealed in whole or in part, and new By-Laws may be instituted by the affirmative vote of a majority of the voting members present at the annual or any regular monthly meeting of the association; provided, that the text of the proposed amendement shall be published in the notice of the meeting and the proposal of any such amendment shall be contained in a petition signed by at least ten full members of the association or by a majority of the Board of Directors."

Be sure to attend the July 8 meeting to express your approval or disapproval of the the proposed amendments. Don't miss the opportunity to cast your vote.

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ROSIE'S REPORTINGS

By Rosemarie Lewis, WAØMNL

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Bill King, WØLKD, PPRAA president, had a ten day "vacation" in Anchorage, Alaska, the latter part of June---on temporary duty in connection with his job with Uncle Sam's communications.

-rr-

Bob Lowe, WAØCTW, has finished his school and he and his XYL are moving to Seattle where he will be employed in underwater work for the U. S. Navy. Before he left he gave his beam to the Lewis's. This beam had once belonged to Bill, WØLKD, so with these two fine ops having broken it in, all we should have to do is set back and enjoy it!

-rr-

John Summers, WØHHN, and family enjoyed a phone patch from New Zealand via Boulder with WØHHO, John Jr. Earlier in the day they had received word that John's XYL had her orders to go to join him in New Zealnd, so they were able to relay the good news. (That was one time when a bit of good news got there in a hurry via amateur radio.) It wasn't a message---just a good visit---not third party traffic.

-rr-

As this goes to press, we are working on the communications for the Powder Puff Derby which the PPRAA is handling in this area. Rhea Allison, K5RDY/Ø, is publicity chairman for this area. With Eldon, WAØERA, and myself helping to coordinate the communications.

Polished and glistening, with engines tuned to precision, 98 light aircraft eill leave Monterey, Calif., July 3. We here in Colorado Springs will be ready with our radio gear dusted off and tuned to the antenna (we hope).

From the jeweled setting on the blue Pacific, over the gleam of the desert to star-studded Nevada, the gals will wing their way, to land at Peterson Field in the shadow of Pikes Peak.

With more than half of the route left. they will head toward the wheatlands of Kansas. Then off to the Blue Grass country.

The final lap of the 2,760 mile journey will take them to Bristol, Pa. There, atop a tower, the timers will click off the final times as the planes flash by.

A total of $5,250 will be divided among the top five, with trophies and several thousand dollars more in additional prizes to be awarded.

-rr-

Irvin Ebel, WØKWV, is recovering from surgery in the Veteran's hospital. As Irv tells it, he went in for an oil change and a grease job and they even rotated his tires. At last report, he was doing well after hours of surgery.

ROCKY MOUNTAIN DIVISION ARRL CONVENTION LIVELY AFFAIR

By Rosemarie Lewis, WAØMNL

We owe a great big thanks to the Denver Radio Club for the terrific job they did at the Rocky Mountain Division ARRL Convention at Estes Park, June 13 and 14.

Held at the Elkhorn Lodge, in the setting of the beautiful Rocky Mountains, the weather was ideal.

Activities got under way on a serious basis Saturday morning, with registrations at 8 a. m. One was made to feel like a VIP with a free gift of flowers, candy and coffee and rolls served by the Colorado YLs.

MARS meetings, forums and technical sessions were well attended.

A noon luncheon for the ladies was appreciated by the gals. Wayne Alcorn, a National Park Ranger, told of his experiences as a Ranger and a Ham. He had on tape the conversation of two porcupines. Bingo, a trip to Bear Lake and the tea-fashion show kept the gals busy. The knit fashion show showed a sweater made from Collie dog fur.

Amateurs were busy trading QSLs,

(Continued on Page 9)

ROCKY MT. DIV. CONVENTION

(Continued from Page 8)

checking the board for their number for a prize. There were more sessions, the high speed CW Contest, the left footed CW contest and all the things that make a convention fun.

The chuck wagon supper was served in a meadow near the Big Thompson River, with split logs for benches and food served from a barbaque pit area.

Then off to the open forum with awards presented and a wide selection of topics discussed with ARRL officials.

Sunday morning began with a bundle of activity---more people arriving, total registration reaching more than 450, with a LU6 from Argentina among those present.

The displays were visited by everyone at least once. Many returned to drool over the Signal One that someone was going to take home. The movie "Ham's Wide World" was termed outstanding by those in attendance.

The Colorado Council of Radio Clubs had its first meeting in the Wood Shed. Some constructive planning was done.

DX QSL cards on display were a fascination to all as was the collection of cards when Colorado was in the 9 district. The first Rocky Mountain Division ARRL Convention was held in Elkhorn Lodge in 1951 and the highlights of the convention brought back memories to many.

The main Sunday speaker was Robert Denniston, WØDX, ARRL president. He showed slides of a DX expedition.

Then more prize drawings at 3 p.m. The system was different from the usual way and seemed to meet the approval of all. The main prize went to a non-Amateur, a dealer in Amateur equipment.

With a big thanks to the convention committee, people said their 73 and headed home---all but the committee members who, I am sure, still had a lot of details and work left.

Twenty one Colorado Springs amateurs and their families attended the convention. Though none brought the top prize home, PPRAA members played an active part in the convention.

Eldon Lewis, WAØERA, was the first lucky one. His number was drawn first in the hourly prizes. He told the convention committee the first prize should be the Signal One, however, he graciously accepted a lesser prize.

Rhea Allison, K5RDY/Ø, was the MC of the YL luncheon. When she drew her own name for a prize, she declined.

John Marek, WAØEJI, won one of the main prizes---the convention antenna (if he wanted to take it off the roof) He did, with the help of Bob, WAØKZD. His mother won one of the ladies' prizes.

Bob, WØNDZ, bought a ticket for his fiancee and when her prize was of a radio nature, he ended up with it in addition to one of his own, as this business of radio is new to her.

The rock table favors made by the Coloradio YL Club were a hit with everyone.

Charleen Meck, WAØLDU, won a hair-dryer donated by her mother, Annabell, KØ-WZN. Annabell, in turn, won a statue enthusiastically admired by her daughter. We all witnessed the swap.

Burt Bittner, WØWQN, gave an excellent presentation on antennas.

Bill King, WØLKD, George Kowalski, WØGCH, and Barry Mitchell, W3KWV/Ø, did a great job presenting the views of the PPRAA at the VHF meeting. They also added to the AREC and open forum session.

Oak Stockton, KØROL, and Chuck, WØ-ECZ, filled in for LDZ and GCH at the Council of Colorado Radio Clubs.

James Don Carlos, WØITU, was much sought after for his DL5 cards. He had a piece of RTTY ribbon hanging from his name tag and this attracted the RTTY people to him.

Renewing old acquaintenance were Gene Bacon, WØCNY, and his XYL. Wilfred Coe,

(Continued on Page 10)

ROCKY MT. DIV. CONVENTION
(Continued from Page 9)

WØFPT, found the eyelash QSO with Traper the highlight of the convention.

Jim Kieffaber, KØSPS, found the car trouble on the way to the convention dampened his spirits a little.

Pete and Ida Demario, KØUDG and WAØNTA, were able to participate in their first convention since the 1966 one in the Springs.

1802 Claremont Parallel to lake one

WAØYNP, took advantage of being in Estes Park by visiting the places they knew from former times.

YNP lent moral courage in my attempt at the high speed CW contest. It was appreciated, but the one minute of solid copy out of three at 35 wpm took me out of the contest. Bob, K7NHL, from Arizona, won it.

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Don't forget the July 8 PPRAA meeting.

ZERO BEAT EDITOR
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